



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,394		12/21/2001	Wolfgang Dultz	2345/158 1961		
26646	7590	04/23/2003	•			
KENYON		ON	EXAMINER			
ONE BROA		0004		PYO, KEVIN K		
				ART UNIT	PAPER NUMBER	
		•		2878		
				DATE MAILED: 04/23/2003	l .	

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Application No.		Applicant(s)	U				
		09/890,394		DULTZ ET AL.	<i>(</i>)				
	Office Action Summary	Examiner		Art Unit					
		Kevin Pyo		2878					
Th MAILING DATE of this communication app ars on the cover she t with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1) 🗌	Responsive to communication(s) filed on	·							
2a)	This action is FINAL. 2b) ☐ Th	is action is non-f	inal.						
3) 🖾	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims AND Claim(c) 17.33 is/are pending in the application									
•	4) Claim(s) 17-32 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.									
	5)⊠ Claim(s) <u>17-32</u> is/are allowed.								
6) Claim(s) is/are rejected.									
	7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement. Application Papers									
	The specification is objected to by the Examine		_						
10) $igotimes$ The drawing(s) filed on <u>21 December 2001</u> is/are: a) $igoplus$ accepted or b) $igotimes$ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)⊠ All b) Some * c) None of:									
	1. Certified copies of the priority document	ts have been rec	eived.						
	2. Certified copies of the priority document	ts have been rec	eived in Applicat	ion No					
3.☑ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
					l application).				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.									
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachmer		A) [Interview Summer	ry (PTO-413) Paper No	o(s)				
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u>	4) L 5) C 2. 6) C		Patent Application (PT					
U.S. Patent and	Trademark Office								

Application/Control Number: 09/890,394

Art Unit: 2878

1. This application is in condition for allowance except for the following formal matters.

Prosecution on the merits is closed in accordance with the practice under Ex parte Oucyle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "reference optical fiber path" of claim 17 and means for providing "a reference polarization state" of claim 25 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

- 3. Claims 17-32 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding claims 17-24, the prior art fails to disclose or make obvious a sensor for detecting a change in a distance between a first location and a second location comprising, in addition to the other recited features of the claim, a reference optical fiber path for simulating the at least one substantially helically coiled optical fiber and over which a second optical signal is transmittable.

Application/Control Number: 09/890,394

Art Unit: 2878

Regarding claims 25-32, the prior art fails to disclose or make obvious a method for detecting a change in a distance between a first location and a second location comprising, in addition to the other recited steps of the claim, the step of comparing the polarization state of the optical signal transmitted with at least one of another polarization state of the optical signal before its transmission and a reference polarization state.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tur et al is cited for disclosing an optical fiber sensor comprising helically coiled fibers.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Pyo whose telephone number is 703-308-4841. The examiner can normally be reached on Mon-Fri (with flexible hour), First Mon. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 703-308-4852. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Application/Control Number: 09/890,394

Art Unit: 2878

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Kevin Pyo

Primary Examiner Art Unit 2878

pkk

April 21, 2003